Notice of Allowability	Application No.	Applicant(s)
	10/826,145	BOUDREAU, ROBERT A.
	Examiner	Art Unit
	Tina M. Wong	2874
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-56</u> .		
3. \square The drawings filed on $___$ are accepted by the Examine	r.	
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 062005. Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in time. 7. ☐ DEPOSIT OF and/or INFORMATION about the depoattached Examiner's comment regarding REQUIREMENT. 	e been received. be been received in Application No cuments have been received in this a of this communication to file a reply dent of this application. itted. Note the attached EXAMINER best reason(s) why the oath or declara of the submitted. Son's Patent Drawing Review (PTO- of this application. SAME AMENICAL TO SAME AND THE COMMENT OF THE	national stage application from the complying with the requirements S AMENDMENT or NOTICE OF tion is deficient. 948) attached Office action of the back) of d). nust be submitted. Note the
 Attachment(s) 1. ⋈ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ⋈ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 12/1/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. Interview Summary Paper No./Mail Dat 08), 7. Examiner's Amendn	e

DETAILED ACTION

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Drawings

The drawings filed on 15 April 2004 are acceptable subject to correction of the informalities as indicated. Notice that all of the labels of the figures are handwritten.

Furthermore, in regards to Figure 2, solid black shadings are not permitted. 37 CFR 1.84(m)

In order to avoid abandonment of this application, correction is required in reply to the Office action. The correction will not be held in abeyance.

Examiner's Statement Of Reasons For Allowance

The following is an examiner's statement of reasons for allowance:

The prior art of record in this application fails to disclose or reasonably suggest a method of attaching a bulk element processing an optical beam to a PLC/first substrate and optically aligning the bulk element with an optical element formed on the PLC/first substrate comprising the steps of (a) securing a bulk element to a first side of a substrate/second substrate, (b) securing a first side of a flexure element to the first side of a substrate/second substrate, (c) securing a second side of the flexure element to the first side of the PLC/first substrate on which an optical element is formed so that a coarse alignment/first level of tolerance is made, and (d) exerting a force on at least a second side of a substrate/second substrate to thereby flex the flexure so to optically align the bulk element and optical element to a fine alignment/ second level of tolerance is made.

The closest prior art of record is U.S. Patent 6,227,724 to Verdiell. Verdiell discloses a method of attaching a bulk element (18) to a PLC/first substrate (12/32) and optically aligning the bulk element with an optical element (22) formed on the PLC/first substrate comprising the

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steps of (a) securing a bulk element (18) to a first side of a substrate/second substrate (12/32), (c) securing a second side of the flexure element (24) to the first side of the PLC/first substrate on which an optical element (22) is formed so that a rough alignment/first level of tolerance is made (Column 7, Lines 15-30), and (d) exerting a force on at least a first side of a flexure element so to flex the flexure so to optically align the bulk element and optical element to a fine alignment/ second level of tolerance is made (Column 7, Lines 55-65). (Figure 1, Figure 3a) But Verdiell fails to disclose method step (b). Verdiell specifically fails to disclose a substrate/second substrate to which a flexure element is secured. Verdiell further fails to specifically disclose method step (d). Although Verdiell does disclose a second level of tolerance alignment to be made, Verdiell does not disclose a force to be exerted on a substrate/second substrate, as claimed in method step (b) in order to achieve the second level of tolerance. On the contrary, Verdiell discloses an additional tool, which exerts a force directly to the flexure element in order to achieve a second level of tolerance.

Therefore, claims 1-56 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The documents submitted by applicant in the Information Disclosure Statement have been considered and made of record. Note attached copy of form PTO-1449. None of the documents submitted by Applicant discloses or reasonably suggest the allowable subject matter discussed above.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Reference B discusses a method of aligning two optical devices using a flexure element. Reference C discloses a flexure element and its possible uses in optical devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tina M. Wong whose telephone number is (571) 272-2352. The examiner can normally be reached on Monday-Friday 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John D. Lee/ iman/Evarying